Energy Solutions Career Pathway

MISSOURI ECONOMIC RESEARCH & INFORMATION CENTER
MISSOURI DEPARTMENT OF HIGHER EDUCATION
& WORKFORCE DEVELOPMENT
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What are Career Pathways?

Career Pathways are groups of occupations within a career field. Occupations within a pathway share common skills, knowledge, and interests. The pathways use industry-recognized credentials and are examples of how different levels of training or education can help provide opportunities for career advancement.

Missouri Numbers:



5,940 Employers



114,415 Workers



\$64,472 Average Wage

Why Have a Career in Energy Solutions?

Energy Solutions provides long-term and low-impact solutions to the energy demands of Missouri. The Energy Solutions target industry represents 4.8 percent of total private sector employment, employing over 114,000 workers in nearly 6,000 businesses in 2019. Employment in this industry has been steadily growing, increasing 2.1 percent per year from 2014 to 2019. Missouri has high employment concentrations in Energy Solutions, particularly in HVAC/Commercial Refrigeration Equipment Manufacturing, Other **Electrical Equipment and Component** Manufacturing, and Other Fabricated Metal Product Manufacturing, Average annual wages in this industry are \$64,472, much higher than the state average of \$51,139 for all industries. Many occupations common in this industry, such as engineers and skilled production workers, have high wages.

With new technologies being created, Energy Solutions is constantly working to meet the energy needs of today and tomorrow. There are many opportunities for a meaningful and rewarding career with good pay and advancement in Production and Engineering/Quality Control.

Know the Basics

Energy Solutions deals heavily with engineering, research, and production, so knowledge of mathematics, science and the ability to use critical and analytical thinking is important. Safety and quality control issues are also a critical part of this industry, along with knowledge of environmental laws and regulations. Soft skills, such as interpersonal skills, professionalism, and dependability, are important in all industries and occupations, including Energy Solutions.

Skills needed for Success:

In addition, Energy Solutions has a set of industry-wide technical competencies that represent the knowledge and skills needed to be successful in this industry. Knowledge of nuclear and non-nuclear energy generation and distribution are some of the key skills needed for success.

Who's Hiring in Missouri?

Burns & McDonnell Leidos Thermo Fisher Scientific Emerson Electric Olin Corporation



Engineering/ **Quality Control**

Production

Now

Short-Term On-the-Job **Training**

See Next and Later categories for job opportunities in Engineering and Quality Control

Helpers-Production Workers Entry: \$24,790; Average: \$30,550

Certificates: Forklift Operation

Next

Certificate. **Associate** Degree, Apprenticeship, **Moderate-to** Long- Term On-the-Job **Training**

Architectural & Civil Drafters

Entry: \$41,960; Average: \$57,090

Mechanical Drafters

Entry: \$40,700; Average: \$54,470

Electrical Engineering Technicians

Entry: \$46,290; Average: \$60,650

Degrees: Engineering, Drafting and Design Certificates: CAD Certification, Certified Quality

Auditor

First-Line Supervisor of Production & Operating Workers

Entry: \$44,220; Average: \$60,230

Welders

Entry: \$34,000; Average: \$42,170

Chemical Plant & System Operators

Entry: \$32,440; Average: \$43,710

Certificates: Forklift Operation, Commercial Driver's License (CDL), Welding, Occupational

Safety & Health Administration (OSHA)

Later

Bachelor's Degree or Advanced **Degree**

Civil Engineers

Entry: \$62,120; Average: \$85,690

Architectural & Engineering Managers

Entry: \$109,560; Average: \$140,000

Electrical Engineers

Degrees: Engineering

Entry: \$76,230; Average: \$101,540

Industrial Production Managers Entry: \$76,440; Average: \$104,990

Degrees: Engineering, Business Administration & Management

Sources:

Burning Glass Technologies Labor/Insight™ tool **Employment and Training Administration, Competency Model Clearinghouse** 2019 Occupational Employment Survey Wage data, U.S. Bureau of Labor Statistics Quarterly Census of Employment and Wages, U.S. Bureau of Labor Statistics Top employers data is based on 2020 online job ads

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